

## INTERNATIONAL SEARCH REPORT

In tional Application No  
PCT/IB2004/051420

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G10L15/22 G10L15/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G10L G06F H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 314 402 B1 (THIRUMALAI MADHAVAN ET AL) 6 November 2001 (2001-11-06)	1-5,8,9, 11,14, 15,19-22
Y	column 7, line 10 - column 8, line 52  column 8, line 55 - column 11, line 16 column 12, line 19 - column 14, line 67 column 16, line 42 - column 17, line 35  ----- -/--	6,7,12, 13,16,17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

22 October 2004

Date of mailing of the international search report

03/11/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>IBRAHIM M H ET AL: "TARO: an interactive, object-oriented tool for building natural language systems" TOOLS FOR ARTIFICIAL INTELLIGENCE, 1989. ARCHITECTURES, LANGUAGES AND ALGORITHMS, IEEE INTERNATIONAL WORKSHOP ON FAIRFAX, VA, USA 23-25 OCT. 1989, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 23 October 1989 (1989-10-23), pages 108-113, XP010017412 ISBN: 0-8186-1984-8 page 109, left-hand column, paragraph 5 - page 111, right-hand column, paragraph 1 page 112, left-hand column, paragraph 3 - right-hand column, paragraph 5</p>	6,7,12, 13,16,17
Y	<p>US 6 434 529 B1 (HUNT ANDREW J ET AL) 13 August 2002 (2002-08-13) cited in the application column 2, line 13 - column 4, line 67</p>	6,7,12, 13,16,17

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International application No.  
PCT/IB2004/051420

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 18, 23-25  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(vi) PCT - Program for computers
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/IB2004/051420

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6314402	B1	06-11-2001	AU WO	4185400 A 0065814 A1	10-11-2000 02-11-2000
US 6434529	B1	13-08-2002	AU WO	4527201 A 0161435 A2	27-08-2001 23-08-2001